

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER

06645/LH

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)

10/503706

INTERNATIONAL APPLICATION NO.  
PCT/JP2005/005811INTERNATIONAL FILING DATE  
29 MARCH 2005PRIORITY DATE CLAIMED  
31 MARCH 2004

TITLE OF INVENTION

CIRCUIT BOARD, ITS MANUFACTURING METHOD, AND JOINT BOX USING CIRCUIT BOARD

APPLICANT(S) FOR DO/EO/US

Tsugio AMBO; Satoru FUJIWARA; Yoshikatsu HASEGAWA; Chihiro NAKAGAWA; Takeshi ONO; Atsushi URUSHIDANI; Tooru KASHIOKA and Katsuji SHIMAZAWA.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☒ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the International application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information:

Express Mail Label No. EV 919 339 311 US

Date of Deposit: September 20, 2006

Change of correspondence address; Request for Pub. Of  
Assignment Information; 16 sheets formal drawings (Figs. 1-  
28); PCT Request; form PCT/IB/306.I hereby certify that this paper is being deposited with the United States Postal Service  
"Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated  
above with sufficient postage, and is addressed to the Mail Stop PCT, Commissioner for  
Patents, P.O. Box 1450, Alexandria, VA 22312-1450

Barbara Villani

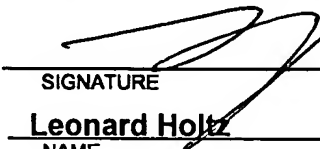


U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <div style="font-size: 1.5em; font-weight: bold;">10/593796</div>		INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER 06645/LH	
The following fees have been submitted				CALCULATIONS      PTO USE ONLY	
21. <input checked="" type="checkbox"/> Basic national fee..... \$300				\$ 300.00	
22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations..... \$200				\$ 200.00	
23. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared and provided to the Office..... \$400 All other situations..... \$500				\$ 400.00	
TOTAL OF 21, 22 and 23 =				\$ 900.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
- 100 =	/ 50 =		x \$250	\$ .00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).				\$ .00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	25 - 20 =	5	x \$ 50	\$ 250.00	
Independent claims	6 - 3 =	3	x \$200	\$ 600.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ \$360	\$ 360.00
TOTAL OF ABOVE CALCULATIONS =				\$ 2110.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					
SUBTOTAL =				\$ 2110.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				+ \$ .00	
TOTAL NATIONAL FEE =				\$ 2110.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+ \$ .00	
TOTAL FEES ENCLOSED =				\$ 2110.00	
Amount to be refunded:				\$ .00	
Amount to be charged:				\$ .00	

a. ☐ A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.  
 b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
 A duplicate copy of this sheet is enclosed.  
 c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-1378. A duplicate copy of this sheet is enclosed.  
 d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:  
**CUSTOMER NO. 01933**  
 Leonard Holtz  
 Frishauf, Holtz, Goodman & Chick P.C.  
 220 5TH AVE FL 16  
 NEW YORK NY 10001-7708      LH:bv

SIGNATURE  
  
 NAME  
**22,974**  
 REGISTRATION NUMBER



Attorney Docket No. 06645/LH

Express Mail Mailing Label  
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**IN THE UNITED STATES PATENT  
AND TRADEMARK OFFICE**

Date of Deposit: September 20, 2006

Applicant(s): T. AMBO et al

Serial No. : Based on  
PCT/JP2005/005811

Filed : Herewith

For : CIRCUIT BOARD, ITS  
MANUFACTURING METHOD,  
AND JOINT BOX USING  
CIRCUIT BOARD

Art Unit :  
Examiner :

CUSTOMER NO.: 01933

**REQUEST FOR PUBLICATION OF  
ASSIGNMENT INFORMATION**

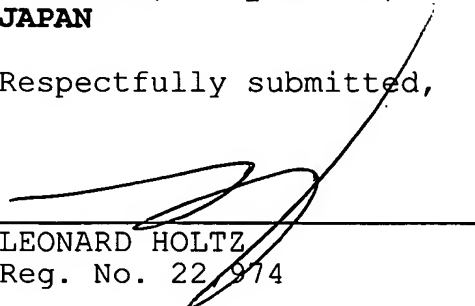
Commissioner for Patents  
P.O. Box 1450,  
Alexandria, VA 22313-1450

S I R :

It is requested that the following assignment information be published as part of the 18 month publication of the present application:

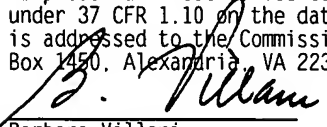
**MITSUBISHI CABLE INDUSTRIES, LTD.  
4-1, Marunouchi 3-chome, Chiyoda-ku,  
Tokyo 100-8303 JAPAN**

Respectfully submitted,

  
LEONARD HOLTZ  
Reg. No. 22,974

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220 Fifth Avenue - 16th Floor  
New York, New York 10001-7708  
(212) 319-4900  
Fax No. (212) 319-5101  
LH/bv

I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

  
Barbara Villani

In the event that this Paper is late filed, and the necessary petition for extension of time is not filed concurrently herewith, please consider this as a Petition for the requisite extension of time, and to the extent not tendered by credit card payment attached hereto, authorization to charge the extension fee, or any other fee required in connection with this Paper, to Account No. 06-1378.



10/593796

IAP9 Rec'd PCT/PTO 20 SEP 2006

10-00)

Approved for use through 10/31/2002. OMB 0651-0035  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>CHANGE OF CORRESPONDENCE ADDRESS</b> <i>Application</i>  <b>Address to:</b> <b>Commissioner for Patents</b> <b>P.O. Box 1450</b> <b>Alexandria, VA. 22313-1450</b>	Application Number	Not yet assigned
	Filing Date	Herewith
	First Named Inventor	AMBO
	Group Art Unit	
	Examiner Name	
	Attorney Docket Number	06645/LH

Please change the Correspondence Address for the above-identified application to:

☒ Customer Number [ 01933 ] →

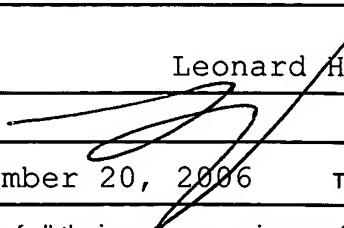
OR

<input type="checkbox"/> Firm or Individual Name					
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I am the:

- ☐ Applicant/Inventor.
- ☐ Assignee of record of the entire interest. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).
- ☒ Attorney or Agent of record. **Registration No. 33,902**
- ☐ Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number \_\_\_\_\_.

Typed or Printed Name	Leonard Holtz, Reg. No. 22,974	
Signature		
Date	September 20, 2006	Telephone: (212) 319-4900
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required. See below.		
<input type="checkbox"/> Total of _____ forms are submitted.		

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 USC 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing and submitting the completed application to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.